

~~#475~~

VOYAGER 1 + 2

IRIS REDUCED DATA RECORDS

(RDR) FOR JUPITER

77-084A 03A

77-076A-03A

VOYAGER 2

JUPITER IRIS MERGED DATA ON TAPES

77-076A-03A

This data set has been restored. There were originally six 9-track, 6250 BPI tapes written in Binary. There are six restored tapes. The DR tapes are 3480 cartridges and the DS tapes are 9-track, 6250 BPI. The original tapes were created on an IBM 360 computer. The DR and DS numbers along with the corresponding D numbers are as follows:

DR#	DS#	D#	FILES	TIME SPAN
-----	-----	-----	-----	-----
DR004233	DS004233	D021240	1	06/21/79 - 06/27/79
DR004234	DS004234	D021241	1	06/27/79 - 06/30/79
DR004235	DS004235	D021242	1	06/30/79 - 07/06/79
DR004236	DS004236	D021243	1	07/06/79 - 07/10/79
DR004237	DS004237	D021244	1	07/10/79 - 07/17/79
DR004238	DS004238	D021245	1	07/17/79 - 07/18/79

VOYAGER 1
JUPITER IRIS MERGED DATA
77-084A-03A

THIS DATA SET HAS BEEN RESTORED. THERE WERE ORIGINALLY NINE 9-TRACK, 6250 BPI TAPES, WRITTEN IN BINARY. THERE ARE NINE RESTORED TAPES. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE CREATED ON AN IBM 360 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND THE TIME SPANS ARE AS FOLLOWS:

DR#	DS#	DD#	FILES	TIME SPAN
DR004117	DS004117	D041986	1	02/02/79 - 02/08/79
DR004118	DS004118	D041987	1	02/08/79 - 02/15/79
DR004119	DS004119	D041988	1	02/15/79 - 02/20/79
DR004120	DS004120	D041989	1	02/20/79 - 02/22/79
DR004121	DS004121	D041990	1	02/23/79 - 02/28/79
DR004122	DS004122	D041991	1	03/01/79 - 03/04/79
DR004123	DS004123	D041992	1	03/04/79 - 03/08/79
DR004124	DS004124	D041993	1	03/08/79 - 03/14/79
DR004125	DS004125	D041994	1	03/14/79 - 03/15/79

REQ. AGENT
BER

RAND NO.
V0051

ACQ. AGENT
RWV

VOYAGER 1 & 2

IRIS REDUCED DATA RECORDS (RDR)

FOR JUPITER

77-084A-03A

77-076A-03A

This data set catalog consists of 9 Voyager 1 and 6 Voyager 2 data tapes. They are 6250 BPI, Binary, 9 track and are single filed. The tapes were created on an IBM 360 computer.

Data set and time spans are as follows:

77-084A-03A Voyager 1

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-41986	C-21246	02/02/79 - 02/08/79
D-41987	C-21247	02/08/79 - 02/15/79
D-41988	C-21248	02/15/79 - 02/20/79
D-41989	C-21249	02/20/79 - 02/22/79
D-41990	C-21250	02/23/79 - 02/28/79
D-41991	C-21251	03/01/79 - 03/04/79
D-41992	C-21252	03/04/79 - 03/08/79
D-41993	C-21253	03/08/79 - 03/14/79
D-41994	C-21254	03/14/79 - 03/15/79

1)

77-076A-03A Voyager 2

D-41995	C-21240	06/21/79 - 06/27/79
D-41996	C-21241	06/27/79 - 06/30/79
D-41997	C-21242	06/30/79 - 07/06/79
D-41998	C-21243	07/06/79 - 07/10/79

VOYAGER 2 (Con't)

<u>D#</u>	<u>C#</u>	<u>TIME SPAN</u>
D-41999	C-21244	7/10/79 - 7/17/79
D-42000	C-21245	7/17/79 - 7/18/79

Voyager Infrared Interferometer Spectrometer and
Radiometer (IRIS) - Documentation for
Reduced Data Records (RDR) for Jupiter

VOYAGER 1 and 2

77-084A-03A
77-076A-03A

October 1980

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DESCRIPTION

1. INTRODUCTION

On August 20 and September 5, 1977, two Voyager spacecraft were launched from the Eastern Test Range. Voyager 1 passed Jupiter on March 5 and Voyager 2 on July 9, 1979. Both Voyager spacecraft carried infrared instruments, known as IRIS, which contain a Michelson interferometer for the infrared (4-55 μm) and a single channel radiometer for the visible and near infrared (0.33-2 μm). A large number of spectra and radiometer data were recorded and are now available to the scientific community.

The purpose of this report is to provide the user of the IRIS data with the necessary information on the IRIS data base for scientific investigations and to document the final calibrated infrared data contained in the reduced data records (RDR). For these reasons this document contains chapters on the instrument, data processing and calibration, trajectory information, RDR tape format and criteria for selection of spectra from the RDR magnetic tapes.

The magnetic tapes contain the calibrated thermal emission spectra, radiometer output, housekeeping data, as well as navigation and pointing information. The tapes, called reduced data records (RDR), are available to the scientific community through the National Space Science Data Center, GSFC, Greenbelt, MD 20771.

2. INSTRUMENT DESCRIPTION

The Voyager infrared investigation uses a Michelson interferometer with a 4.3 cm^{-1} spectral resolution in the $180-2500 \text{ cm}^{-1}$ (4-55 μm) range and a single-channel radiometer for the visible and near infrared, $5000-30000 \text{ cm}^{-1}$ (.33-2 μm). Both devices share a Cassegrain telescope with a 50 cm diameter primary mirror and a 0.25° field of view. A description of the instrument has been published in Applied Optics (Hanel et al., 1980). Table 1 summarizes parameters of the Voyager IRIS.

The on-board calibration of the interferometer uses deep space, which is for this purpose considered a blackbody of zero degree and the internal

instrument temperature as reference points. The radiometer is calibrated by viewing occasionally a diffuser plate of known radiometric property to reflect ~~sun~~ light into the instrument. In addition to the instrument paper, a paper on "Albedo, Internal Heat, and Energy Balance of Jupiter" by Hanel et al. (1981) contains a detailed description of the calibration concept of the interferometer and radiometer, including the spectral response of the radiometer and the diffusor plate. Preprints of this paper and reprints of the instrument paper are available on request.

For reference the noise equivalent spectral radiance (NESR), the radiance level yielding unity signal-to-noise, ^{for a single spectrum}, is shown in Figs. ¹ ~~1~~ and 2 for Voyager 1 and 2, respectively.

3. DATA REDUCTION AND CALIBRATION

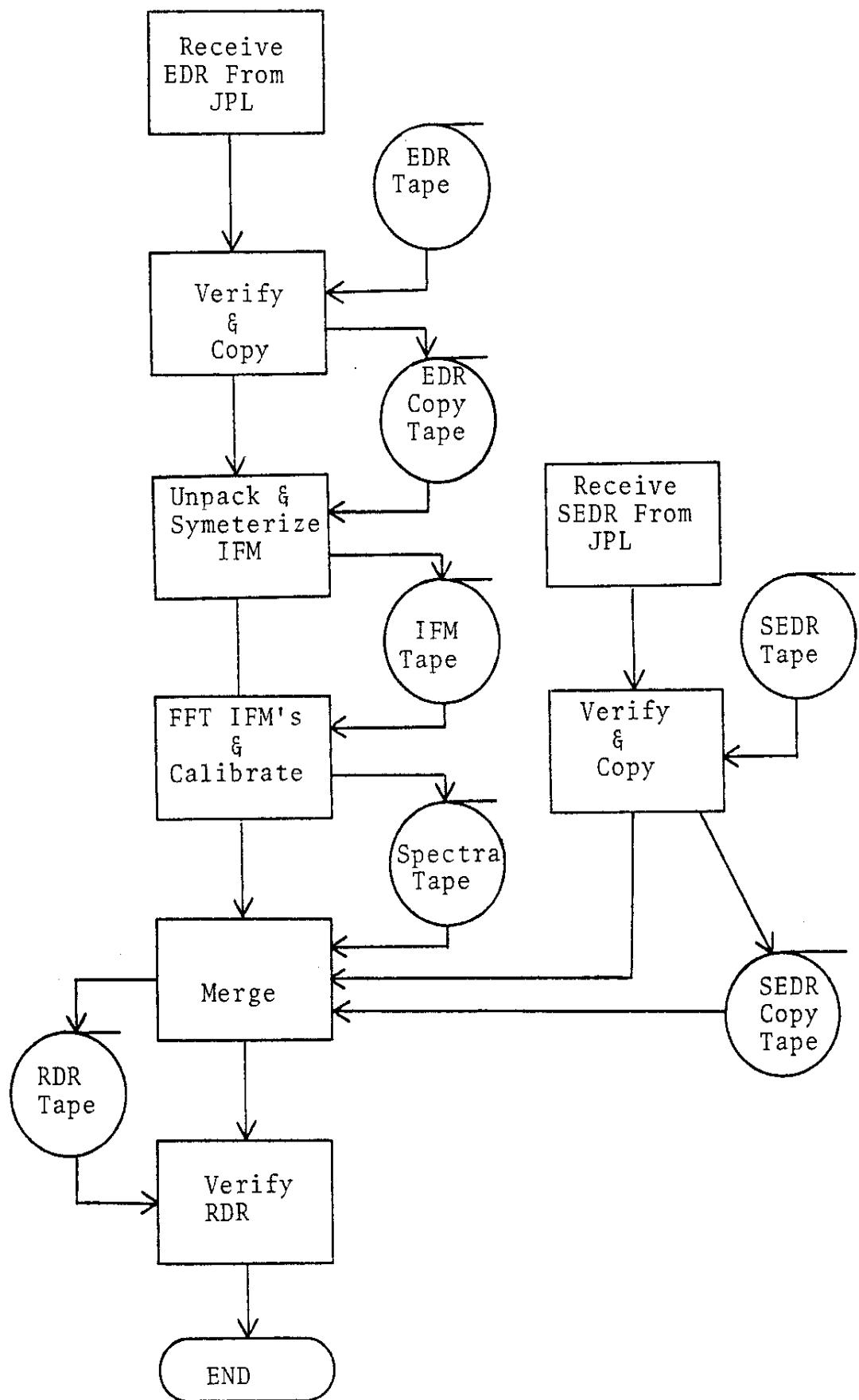
3.1 Interferometer

The data reduction of the IRIS ~~interferograms~~ ^{data was divided into} consisted of two major steps. The first consisted of symmetrizing the interferograms to correct for the fact that they are not sampled at zero path difference and to remove the asymmetry due to residual dispersion in the beamsplitter and compensator. Deep space calibration data was then selected from the symmetrized interferograms to calculate the spectral response. The second ^{major} step consisted of apodizing and cosine transforming the symmetrized interferograms and calibrating them with the spectral response. The observed power spectrum C can be written as

$$C(v) = r(v) (B_I(v) - B_T(v))$$

where v is wavenumber, r is the spectral response, B_I is the instrument ^{the instrument temperature (200K)} radiance at 200°K and B_T is the target radiance. While observing deep space, the instrument sees only itself as a 200°K blackbody since all elements of the instrument are carefully controlled at 200°K .

Figure 11
IRIS Data Processing Procedure Flow-Chart



ation in the high-energy particle environment expected outside the Jovian magnetosphere. The effort was successful; the IRIS has performed well throughout the high-level flux periods of the mission.

Finally, all of this had to be achieved within minimum weight and power allocations, requiring a delicate balance between performance, reliability, and available resources.

In the fall of 1975, an advanced version of the Voyager IRIS, called MIRIS (Modified IRIS), was on the drawing board for a possible Jupiter-Uranus mission to be launched in 1979. This Jupiter-Uranus mission never materialized; instead, the Voyager 2 spacecraft was given the option of a Uranus fly-by after the Saturn encounter. To enhance the scientific return from this option, an attempt was made to accelerate the construction of MIRIS for inclusion in the Voyager 1977 mission. MIRIS was fully qualified for spaceflight in September 1977, too late, unfortunately, to participate in Voyager. The interferometer discussed in this paper (IRIS) was launched on board Voyager 2 on 20 Aug. 1977 and on Voyager 1 on 5 Sept. 1977. The Voyager 1 fly-by of Jupiter occurred on 5 Mar. 1979, and the Voyager 2 fly-by took place on 9 July 1979. Both spacecraft are now on their way to Saturn and will arrive on 13 Nov. 1980 and 26 Aug. 1981, respectively. Voyager 2 has the option of continuing for a fly-by of Uranus to occur on 30 Jan. 1986.

II. Overview of Instrument

The Voyager IRIS combines a Michelson interferometer for measurements in the middle-IR region and a radiometer for measurements in the visible and near-IR range, sharing a 50-cm diam telescope. The physical layout, seen in Fig. 1, shows the major components: the optics, the electronics, and the power

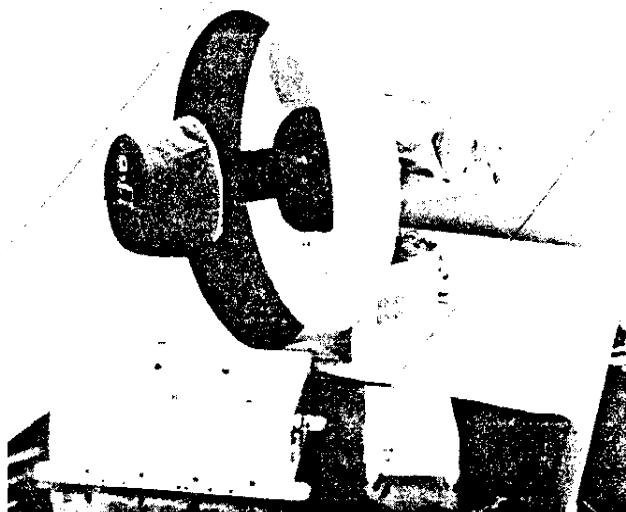


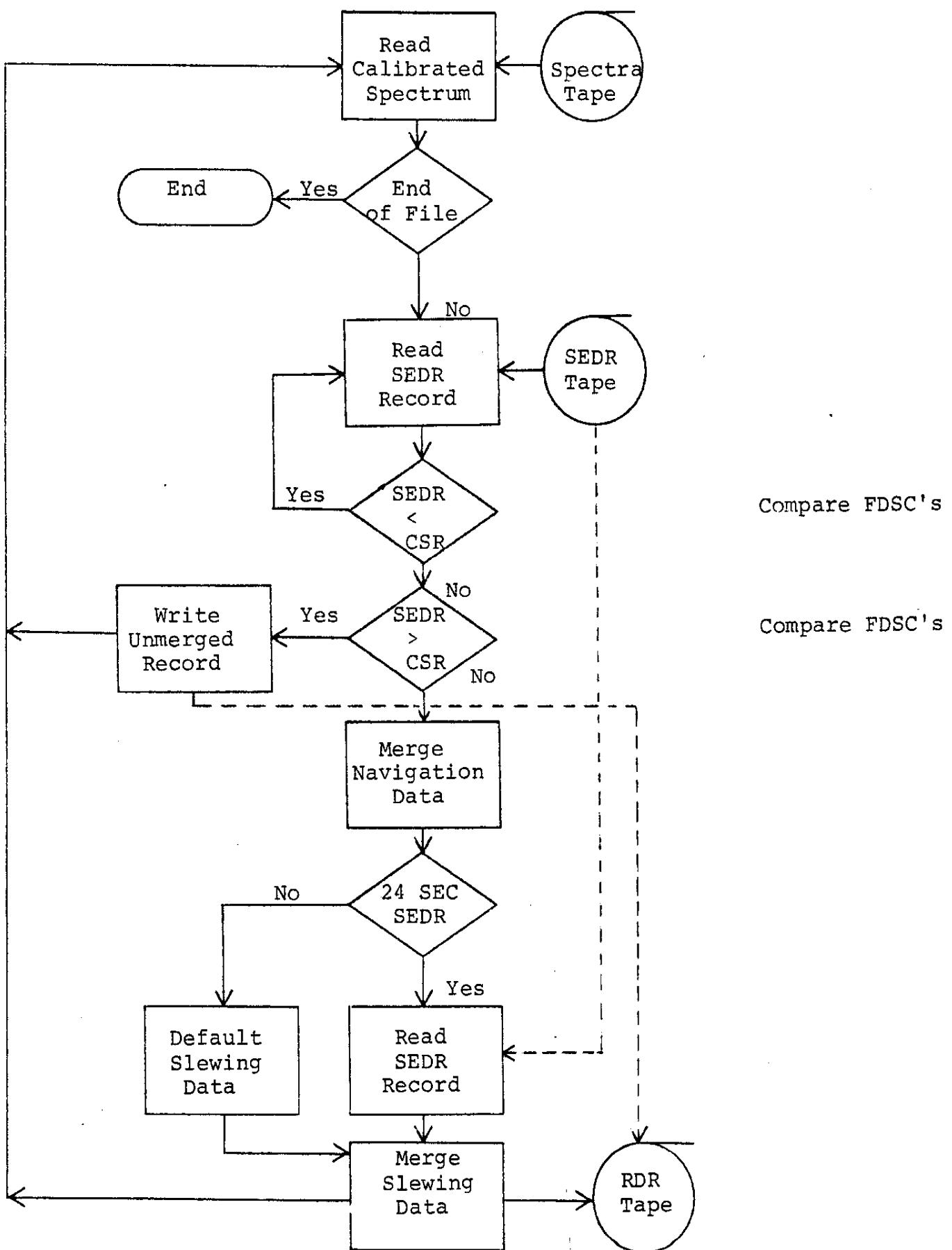
Fig. 1. Three modules of the Voyager IRIS. The optics module, center, contains a 50-cm diam telescope and is mounted in this picture on a metal block labeled *MJS IRIS*. The IR and reference interferometers and the radiometer, mounted behind the primary mirror, are covered with thermal blankets. All the actual flight blankets were black and electrically conducting. The telescope secondary mirror, also obscured by thermal blankets, is mounted at the end of the cylinder protruding from the center of the primary mirror. The small 20° off-axis solar calibration mirror and its reflection in the primary mirror can be seen protruding downward from the center hub of the primary. The small package in the right foreground is the power supply, and the larger enclosure on the left is the electronics module.

Table I. Parameters of the Voyager IR Instrument (IRIS)

Spectral Range	180–2500 cm ⁻¹ (4–55 μm)
Interferometer	5000–30000 cm ⁻¹ (0.33–2 μm)
Radiometer	4.3 cm ⁻¹
Spectral resolution of interferometer (apodized)	
Field of view	
Telescope	0.25°
Interferometer	4.28°
Aperture: (including obscuration)	
Telescope	2026 cm ²
Interferometer	8.56 cm ²
Noise equivalent spectral radiance	5 × 10 ⁻⁹ W cm ⁻² sr ⁻¹ /cm ⁻¹
at 500 cm ⁻¹	1.5 × 10 ⁻⁸ W cm ⁻² sr ⁻¹ /cm ⁻¹
at 2000 cm ⁻¹	
Operating temperature, optics	200 ± 0.5 K
Temperature stability	0.1 K/day
Interferogram time	45.6 sec
Mirror travel	0.158 cm
Mirror velocity	3.51 × 10 ⁻³ cm sec ⁻¹
Reference wavelength	0.58525 μm
Data band	1.2–18 Hz
Words per interferogram	3648
Data word rate	80 words sec ⁻¹
Analog-to-digital converter	13 bits
Word length after digital filtering	14 bits
Data bit rate	1120 bits sec ⁻¹
Weight	18.4 kg
Power dissipation (average)	14.0 W

Figure 12

IRIS Merge Procedure Flow-Chart



5. REDUCED DATA RECORD (RDR) TAPE GENERATION

5.1 Data Processing Procedure

The IRIS information was received from JPL in the form of three types of magnetic tapes:

- (1) Experimenter Data Record (EDR) tapes containing the raw telemetry and engineering data,
- (2) Fixed Instrument Supplementary Experimenter (FI-SEDR) tapes containing spacecraft navigation data, and
- (3) Scan Platform Supplementary Experimenter (SP-SEDR) tapes containing instrument pointing data.

The procedure used to process each EDR tape is illustrated in Fig. 11. The details for the unpacking, the symmetrization of the interferogram (IFM), the Fourier transformation, and the calibration for each record is contained in Section 3. The details of the merging procedure are described in Section 5.2.

Each IRIS RDR tape contains IRIS records in ascending FDSC order. Appendix C contains the RDR tape summary by FDSC. Appendix D contains a detailed description of the physical tape format and the word content of each RDR. Example FORTRAN programs are included to illustrate the way in which specific data elements can be accessed or calculated.

5.2 Merge Procedure

After the EDR tapes have been processed into Calibrated Spectra Record (CSR) tapes, it is necessary to merge the navigation/pointing data into the header of each CSR to produce the Reduced Data Records (RDR's). Fig. 12 illustrates this merge procedure. (The term SEDR is used to mean both FI-SEDR and SP-SEDR, since the procedure is identical in both cases.)

The SEDR tapes were generated by JPL at either 48 second (one per observation) or 24 second (two per observation) intervals. The 48 second SEDR's correspond to line-count 350 (near the peak of the IFM). The 24 second SEDR's correspond to line-counts 350 and 750 (end of the observation). In cases where 24 second SEDR's are available, it is possible to determine whether any slewing of the scan platform took place during the observation. This happens from time-to-time when the scan platform is controlled by the non-IRIS experiments. Slewing can be detected by noting differences between the Q5 (center of field-of-view) latitude/longitude, and/or emission angle in the two SEDR records for the observation. Provision was made in the IRIS RDR to store this information (header word 123 contains the latitude/longitude, and word 124 contains the emission angle for the SEDR at line count 750). Where only 48 second SEDR data was available, these values have been set equal to the normal header values.

6. DATA USERS GENERAL INFORMATION

6.1 Common RDR Words

For the convenience of the user, some of the IRIS RDR words most often used are summarized in Table 2. The Q₅⁵ point is at the center of the IRIS field of view (FOV).

Table 2

IRIS			
Word	Bytes	Format	Description
8	17-20	I*4	Starting FDSC MOD 2 ¹⁶
9	21-24	I*4	Starting FDSC MOD 2 ⁶⁰
38	85-86	I*2	Reject Flag
99	341-344	I*4	Picture Body ID
102	353-356	R*4	Range, S/C to picture body
112	393-396	R*4	Solar elevation angle for Q5 point
113	397-400	R*4	Emission angle for Q5 point
116	409-412	R*4	Local hour angle for Q5 point
127	453-456	I*4	System X ^{III} latitude and longitude for Q5 point

The complete description of the RDR words is given in Appendix D.

6.2 Data Quality Criteria

Several levels of quality indicators should be considered before acceptance of an RDR for data analysis:

- a) interferometer data quality - RDR word 38 is set to a code, depending on the quality of the interferogram with

0 = okay
1 = too many spikes in IFM
2 = missing data in IFM
3 = zero peak in IFM
4 = no IFM data, only radiometer

For standard analysis^{es}, codes 2, 3, and 4 *imply* IFM data is not useable.

b) interferometer smear

During non-IRIS science links the scan platform may slew considerably during an IRIS 48 second integration period. This slewing can be detected by noting differences in the latitude/longitude of the Q5 (center of the field-of-view) and/or emission angle between the 24 and 48 second SEDRs. In most cases (see section 5.2), this information is stored in the header portion of each RDR. When selecting spectra for analysis, care should be taken to insure that observations with pronounced smear are not included. This information is available for days 54-74 for Voyager I and for days 181-191 for Voyager II.

6.3 Known RDR Peculiarities

Despite all attempts to establish a clean, contiguous data base, some discontinuities and errors remain. Some of the known peculiarities and inconsistencies are:

- 1) A few FDSC counts are missing both interferometer and radiometer data and contain only the scan platform information.

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2) Mislabelling on the SEDR tapes shows incorrect identification of some picture bodies. Known misidentifications are:

- a) FDSC 16398.40 - 16399.22 are deep space spectra, not Callisto.
- b) FDSC 16308.14 - 16308.35 are Ganymede spectra, not Callisto.
- c) FDSC 16274.31 - 16274.39 are Io spectra, not Callisto.

3) There are time periods where data is not contiguous. Gaps in the data occur for a variety of reasons, such as bad weather inhibiting ground reception, no scan platform data, etc.

APPENDIX A

TIME-RANGE SUMMARY

Voyager 1 Time Summary

Scet	Relative Time (DAY)	Relative Time (HRS.)	FDSC	Range (10^6 KM)	Range (R_J)	ASD	1/F
24.5	-40	-940	15196.55	39.70	556.7	.10	.84
34.5	-30	-720	15496.55	30.91	433.1	.13	1.08
39.5	-25	-600	15639.25	26.13	366.2	.16	1.27
39.9	-24	-596	15653.25	25.70	360.4	.17	1.29
44.5	-20	-480	15789.25	21.40	299.9	.19	1.56
49.5	-15	-360	15939.25	16.50	231.2	.25	2.02
54.5	-10	-240	16089.24	11.40	159.9	.36	2.93
55.5	-9	-216	16119.24	10.38	145.6	.39	3.22
56.5	-8	-192	16149.24	9.36	131.2	.44	3.57
57.5	-7	-168	16179.24	8.33	116.7	.49	4.02
58.5	-6	-144	16209.24	7.28	102.1	.60	4.60
59.5	-5	-120	16239.24	6.22	87.2	.66	5.40
60.6	-4	-96	16269.24	5.13	71.9	.80	6.56
61.5	-3	-72	16299.24	4.02	56.4	1.02	8.40
62.5	-2	-48	16329.24	2.94	41.2	1.43	11.57
62.75	-1.75	-42	16336.54	2.56	35.9	1.60	13.33
63.00	-1.50	-36	16344.24	2.25	31.6	1.82	15.20
63.25	-1.25	-30	16351.54	1.94	27.1	2.12	17.89
63.50	-1.00	-24	16359.24	1.61	22.6	2.54	21.57
63.75	-0.75	-18	16366.54	1.27	17.9	3.21	27.59
64.00	-0.50	-12	16374.24	.93	13.0	4.43	38.86
64.25	-0.25	-6	16381.54	.57	8.0	7.20	66.35

Voyager 1 Time Summary

Scet	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
64.50	0.0	0.0	16389.24	.35	4.90	11.77	119.10
64.75	+ .25	+ 6	16396.54	.57	8.00	7.20	65.97
65.00	+ .50	+ 12	16404.24	.93	13.00	4.43	38.86
65.25	+ .75	+ 18	16411.54	1.27	17.90	3.21	27.52
65.50	+1.00	+ 24	16419.24	1.61	22.60	2.54	21.53
65.75	+1.25	+ 30	16426.54	1.93	27.10	2.12	17.83
66.00	+1.50	+ 36	16434.24	2.25	31.60	1.82	15.21
66.25	+1.75	+ 42	16441.54	2.56	35.90	1.60	13.33
66.50	+2.00	+ 48	16449.24	2.86	40.10	1.43	11.92
67.50	+3.00	+ 72	16479.24	4.02	56.40	1.02	8.40
68.0	+4.00	+ 96	16509.24	4.96	69.50	.80	6.79
69.50	+5.00	+120	16539.24	6.23	87.20	.69	5.40
70.50	+6.00	+144	16569.24	7.28	102.10	.56	4.60
71.50	+7.00	+168	16599.24	8.34	116.70	.50	4.02
72.50	+8.00	+192	16629.24	9.19	128.80	.44	3.64
73.50	+9.00	+216	16659.24	10.35	145.10	.39	3.22
74.30	+10.00	+236	16685.31	11.28	158.10	.36	2.96
74.50	+10.00	+240	16689.25	11.41	160.00	.35	2.93
79.50	+15.00	+360	16839.25	16.41	230.00	.25	2.03
84.50	+20.00	+480	16989.25	21.32	298.90	.19	1.56
89.50	+25.00	+600	17039.25	26.12	366.20	.16	1.27
94.50	+30.00	+720	17289.25	30.91	433.10	.13	1.08
04.50	+40.00	+940	17589.25	39.80	557.80	.10	.84

Voyager 2 Time Summary

Scen	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (R _J)	ASD	1/F
50.90	-40	-940	19459.30	30.61	428.90	.13	1.09
60.90	-30	-720	19759.30	24.13	338.20	.17	1.38
65.90	-25	-600	19909.30	20.70	290.20	.20	1.61
70.90	-20	-480	20059.30	16.80	235.50	.24	1.98
72.90	-18	-436	20119.30	15.35	215.20	.30	2.17
75.90	-15	-360	20209.30	13.10	184.00	.31	2.54
80.90	-10	-240	20359.30	9.25	129.70	.40	3.61
81.90	-9	-216	20389.30	8.45	118.40	.48	3.96
82.90	-8	-192	20419.30	7.66	107.30	.53	4.38
83.90	-7	-168	20449.30	6.83	95.70	.60	4.91
84.90	-6	-144	20479.30	6.01	84.20	.68	5.59
85.80	-5	-120	20509.30	5.15	72.20	.80	6.53
86.90	-4	-96	20534.30	4.29	60.10	.95	7.87
87.90	-3	-72	20569.30	3.37	47.20	1.20	10.07
88.90	-2	-48	20599.30	2.42	33.90	1.70	14.14
89.20	-1.75	-42	20607.00	2.18	30.60	1.90	15.71
89.40	-1.50	-36	20614.30	1.94	27.20	2.10	17.75
89.60	-1.25	-30	20622.00	1.68	23.50	2.40	20.67
89.90	-1.00	-24	20629.30	1.43	20.00	2.80	24.48
90.20	-.75	-18	20637.00	1.19	16.70	3.40	29.66
90.40	-.50	-12	20644.30	.96	13.50	4.20	37.21
90.60	-.25	-6	20652.00	.78	10.90	5.30	46.98
90.95	0.0	0	20659.30	.72	10.12	5.73	51.57
91.10	+.25	+.6	20667.00	.78	10.90	5.30	46.98

Voyager 2 Time Summary

Set	Relative Time (DAY)	Relative Time (HRS)	FDSC	Range (10 ⁶ KM)	Range (RJ)	ASD	I/F
91.40	+ .50	+ 12	20674.30	.96	13.50	4.24	37.21
91.60	+ .75	+ 18	20682.00	1.19	16.70	3.43	29.66
91.90	+1.00	+ 24	20689.30	1.43	20.00	2.85	24.48
92.20	+1.25	+ 30	20697.00	1.68	23.50	2.43	20.67
92.40	+1.50	+ 36	20704.30	1.93	27.10	2.11	17.82
92.60	+1.75	+ 40	20712.00	2.18	30.60	1.95	15.71
92.90	+2.00	+ 48	20719.30	2.42	33.90	1.69	14.14
93.90	+3.00	+ 72	20749.30	3.37	47.20	1.21	10.07
94.90	+4.00	+ 96	20779.30	4.27	59.90	.97	7.89
95.90	+5.00	+120	20809.30	5.14	72.00	.80	6.55
96.90	+6.00	+144	20839.30	5.99	84.20	.68	5.59
97.90	+7.00	+168	20869.30	6.81	95.50	.60	4.92
98.90	+8.00	+192	20899.30	7.63	107.00	.53	4.39
99.90	+9.00	+216	20929.30	8.43	118.20	.48	3.97
00.90	+10.00	+240	20959.30	9.25	129.70	.44	3.61
15.90	+15.00	+360	21109.30	13.10	184.00	.31	2.54
20.90	+20.00	+480	21259.30	16.90	236.90	.24	1.97
25.90	+25.00	+600	21409.30	20.60	289.00	.20	1.62
30.90	+30.00	+720	21559.30	24.20	339.20	.17	1.38
40.90	+40.00	+940	21859.30	30.90	433.10	.13	1.08

APPENDIX C

VOYAGER 1 AND 2 RDR TAPE SUMMARY
FDSC COUNT - TAPE ID

Voyager 1

<u>Days</u>	<u>FDSC</u>				<u># of Records</u>
	<u>Start</u>	<u>Finish</u>	<u>Tape ID</u>	<u>File #</u>	
33-39	15473.37	15653.31	VGR101	1	10027
39-46	15653.33	15863.33	VGR102	1	11716
46-51	15863.34	16013.32	VGR103	1	8604
51-53	16013.33	16074.16	VGR104	1	3339
54-59	16074.19	16254.08	VGR105	1	10733
60-63	16254.19	16359.18	VGR106	1	5932 ✓
63-67	16359.21	16485.55	VGR107	1	74143
67-73	16485.59	16673.23	VGR108	1	11006
73-74	16673.30	16685.29	VGR109	1	720
			Total		69491

Voyager 2

<u>Days</u>	<u>FDSC</u>				<u># of Records</u>
	<u>Start</u>	<u>Finish</u>	<u>Tape ID</u>	<u>File #</u>	
172-178	20115.41	20300.20	VGR201	1	10319
178-181	20300.21	20390.19	VGR202	1	5361
181 187	20390.21	20570.20	VGR203	1	10661
187-191	20570.21	20689.51	VGR204	1	7002
191-198	20691.12	20900.20	VGR205	1	12430
198-199	20900.21	20930.35	VGR206	1	<u>1798</u>
				Total	47,571

APPENDIX D

REDUCED DATA RECORD (RDR) TAPE DESCRIPTION AND FORMAT

Each standard magnetic tape contains complete IRIS records (header and data) in ascending FDSC order. All records can be read using a standard FORTRAN unformatted READ statement:

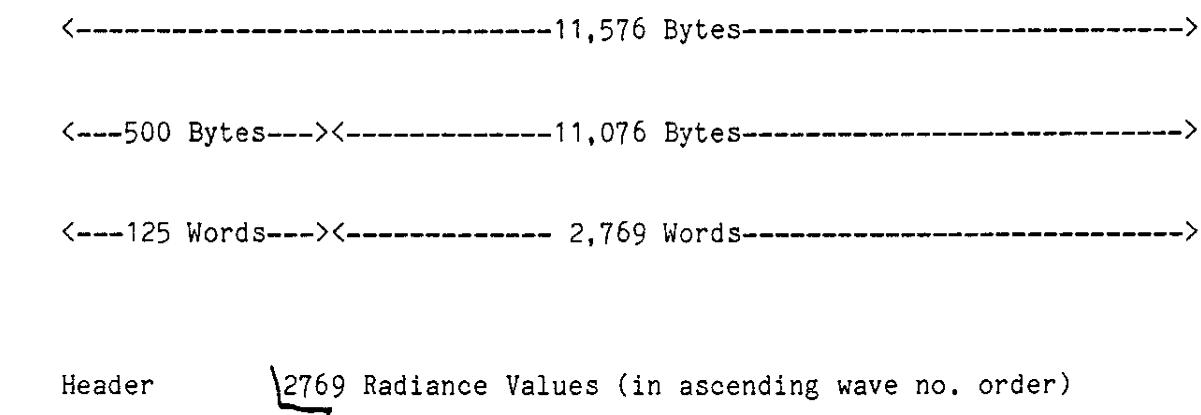
DIMENSION RECORD (2894)

READ (1) RECORD

The first 500 bytes of each record are the header information which is a mix of full-word read values, full and half-word integers. The remaining 11,076 bytes are radiance data as a function of wavenumber, and are all real values.

full-word,

The following illustrates graphically a IRIS RDR record:



A word is defined as 4 bytes ~~or~~ (32 bits),

The physical tape description and corresponding IBM JCL is given in Table D1.

Table D1. RDR Tape Description

		<u>IBM JCL</u>
Tracks:	9	UNIT = 9 TRACK
Density:	6250 BPI	DEN = 4
Label:	No Label	LABEL = (,NL)
Parity:	Odd	P
Record Format:	Blocked, Variable Length*	RECFM = VBS
Record Size:	11,580 Bytes**	LRECL = 11580
Block Size:	11,584 Bytes***	BLKSIZE = 11584

*Although the record format specifies variable length records, all records on a tape are the same length (record size). VBS format was used to conform to IBM FORTRAN unformatted READ/ WRITE requirements.

**Includes standard IBM 4 byte segment descriptor word.

***Includes standard IBM 4 byte block descriptor word.

The contents of a RDR record are described in Table D2. The column headings are:

Column 1:	Field Number	a consecutive numbering of field quantities for reference.
Column 2:	Byte Location	contains the relative byte number of each word in the header
Column 3:	Format	contains the FORTRAN descriptor for the format of each word, i.e., R*4 = real variable of length, 4 bytes.
Column 4:	FI-SEDR Word	contains the origin of the navigation data from the fixed instrument SEDR data. NOTE: None of this data was placed into the IRIS header.
Column 5:	SP-SEDR Word	contains the origin of the navigation data from the Scan Platform SEDR data. These words are referenced to Appendix E.
Column 6:	Description	a description of the field quantities.

The abbreviations in Table D2 are defined as:

HK = Housekeeping.

IFM = Interferogram

PB = Picture Body. The body (planet or satellite) that the IRIS instrument is pointing at at the time of observation.

CB = Central Body. The planetary body at the center of the planet-moon system (i.e., Jupiter, Saturn).

Q5 = Defines intercept point of IRIS field of view.

S/C = Spacecraft.

ASD = Angular Semi-Diameter. The angle subtended from a view from the spacecraft when projected onto the radius of the observed body.

Jupiter System 1: A coordinate system of reference which rotates at the same rate as the observed middle latitude features on Jupiter.

Jupiter System 3: A coordinate system of reference which rotates at the same rate as Jupiter's magnetic field.

The arrangement of the IRIS field of view is illustrated in Appendix E.

Table D2. RDR Record Contents

FIELD NO.	BYTE LOCATION	FORMAT WORD	FI-SEDR WORD	SP-SEDR WORD	DESCRIPTION
1	1-4	I*4			Tape Creation Date (YY MM DD)
2	5-6	I*2			Record Type: Always 3
3	7-8	I*2			Calibration File Serial #
4	9-10	I*2			Source EDR Tape # -N = Preliminary +N = Final
5	11-12	I*2			Source Fixed Instrument SEDR Tape # 0 = None -N = Predict +N = Actual
6	13-14	I*2			Source Footprint SEDR Tape # 0 = None -N = Predict +N = Actual
7	15-16	I*2			# of Records in Average - Always 1
8	17-20	I*4			Starting FDSC Mod 2 ¹⁶
9	21-24	I*4			Starting FDSC Mod 60
10	25-28	I*4			Ending FDSC Mod 2 ¹⁶
11	29-32	I*4			Ending FDSC Mod 60
12	33-34	I*2			Spacecraft ID 1 = Voyager 1 2 = Voyager 2
13	35-36	I*2			Data Mode from EDR Header: (10 = GS3 etc.)
14	37-38	I*2			Playback Flag 0 = Real Time 1 = Playback
15	39-40	I*2			Earth Received Time: Year
16	41-42	I*2			Earth Received Time: Day
17	43-44	I*2			Earth Received Time: Hour
18	45-46	I*2			Earth Received Time: Minutes
19	47-48	I*2			Earth Received Time: Seconds
20	49-50	I*2			Data Source as in EDR (1 = Real Time etc.)
21	51-52	I*2			Golay Encoded Flag 0 = No 1 = Yes
22	53-54	I*2			Phase Angle Serial #

23	55-56	I*2	Spacecraft Event Time: Year
24	57-58	I*2	Spacecraft Event Time: Day
25	59-60	I*2	Spacecraft Event Time: Hour
26	61-62	I*2	Spacecraft Event Time: Minute
27	63-64	I*2	Spacecraft Event Time: Second
28	65-66	I*2	0 = Input by NORT File 1 = Input by EDR Proc (Scet Flag)
29	67-68	I*2	DSN Configuration 8 Bits (Low Order) as in EDR
30	69-70	I*2	DSN Station # 8 Bits (Low Order) as in EDR
31	71-72	I*2	Estimated Bit Error Count from EDR
32	73-74	I*2	
33	75-76	I*2	DQSW Sums over 10 Groups for
34	77-78	I*2	Bits 4, 3, 1, 0 (See EDR DQSW)
35	79-80	I*2	
36	81-82	I*2	# of Minor Frames, Golay Corrected
37	83-84	I*2	# of Minor Frames Containing Missing Data
38	85-86	I*2	Reject Code: 0 = OK 1 = Too Many Spikes 2 = Missing Data 3 = Zero Peak 4 = No IFM Present
39	87-88	I*2	# of Spikes, Corrected
40	89-90	I*2	Golay Bit Error Summation from EDR
41	91-92	I*2	Radiometer Data Present 0 = No 1 = Yes
42	93-96	R*4	Integrated Radiometer from HK (Watts)
43	97-100	R*4	
44	100-104	R*4	
45	105-108	R*4	
46	109-112	R*4	Averages over HK Groups of
47	113-116	R*4	9 Temperature Channels
48	117-120	R*4	
49	121-124	R*4	
50	125-128	R*4	
51	129-132	R*4	
52	133	L*1	Lock 1st Group HK LHK1 and LHK2

53	134	L*1	Lock 2nd Group HK LHK3 and LHK4
54	135	L*1	Neon Delay Lock ND1, ND2, ND3, or ND4
55	136	L*1	Motor Position Lock Control MP1, MP2, MP3 or MP4
56	137-140	R*4	
57	141-144	R*4	
58	145-148	R*4	
59	149-152	R*4	8 Radiometer Samples Normal Gain (Watts)
60	153-156	R*4	
61	157-160	R*4	
62	161-164	R*4	
63	165-168	R*4	
64	169-172	R*4	
65	173-176	R*4	
66	177-180	R*4	
67	181-184	R*4	8 Radiometer Samples High Gain (Watts)
68	185-188	R*4	
69	189-192	R*4	
70	193-196	R*4	
71	197-200	R*4	
72	201-204	R*4	Maximum of 8 Neon Samples (Volts)
73	205-208	R*4	Minimum of 8 Neon Samples (Volts)
74	209-212	R*4	Average Residual Square Difference of Phase Fit
75	213-216	R*4	Average 22 Micron Brightness Temperature $(400-500 \text{ cm}^{-1})$
76	217-220	R*4	Average 5 Micron Brightness Temperature $(2000-2050 \text{ cm}^{-1})$
77	221-224	R*4	Near IR Radiance (V I - Not Used) (V II - Integrated $3600-3800 \text{ cm}^{-1}$)
78	225	L*1	
79	226	L*1	
80	227	L*1	HK Present 4 Groups
81	228	L*1	
82	231-232	I*2	
83	233-234	I*2	EDR Subheader Without Spares
84	235-236	I*2	

85	237-240	R*4	X
86	241-244	R*4	Y
87	245-248	R*4	Z Cartesian State of Spacecraft
88	249-252	R*4	X Jupiter Centered (System 1)
89	253-256	R*4	Y
90	257-260	R*4	Z
91	261-264	R*4	X
92	265-268	R*4	Y Cartesian State of Spacecraft
93	269-272	R*4	Z Jupiter Centered, Jupiter Mean Orbit and Prime
94	273-276	R*4	X Meridian in Sun Direction
95	277-280	R*4	Y
96	281-284	R*4	Z
97	285-288	R*4	157 Jupiter Latitude of Spacecraft
98	289-292	R*4	158 Jupiter Longitude of Spacecraft (System 1)
99	293-296	R*4	159 Jupiter Longitude of Spacecraft (System 3)
100	297-316	R*4	Reserved for Saturn
101	317-320	R*4	2 CB Id.
102	321-324	R*4	36 Range CB + O
103	325-328	R*4	176 40 Range S/C + CB
104	329-332	R*4	184 Angle X CB - O - S/C (Deg)
105	333-336	R*4	186 Angle X O - CB - S/C (Deg)
106	337-340	R*4	239 Time Relative to Periapsis
107	341-344	R*4	2 PB Id. IF PB is CB, PB = 0
108	345-348	R*4	37 Range, PB + O
109	349-352	R*4	40 Range, S/C + CB
110	353-356	R&4	41 Range, S/C + PB
111	357-360	R*4	71 Range, S/C + PB Tangency Point
112	361-364	R*4	42 S/C Altitude Above PB
113	365-368	R*4	43 PB Sub Solar Pt. Latitude
114	369-372	R*4	44 PB Sub Solar Pt. Longitude
115	373-376	R*4	45 PB Sub-S/C Pt. Lat.
116	377-380	R*4	46 PB Sub-S/C Pt. Long.
117	381-384	R*4	47 S/C Phase X
118	385-388	R*4	48 PB ASD
119	389-392	R*4	70 Optic Axis
120	393-396	R*4	74 PB QS Pt., Solar Incidence Angle

121	397-400	R*4	75	PB QS Pt., Emission Angle
122	401-404	R*4	76	PB QS Pt., Phase Angle
123	405-408	R*4	77	PB QS Pt., Sun Azimuth Angle
124	409-412	R*4	82	PB QS Pt., Local Time (hr.)
125	413-416	R*4		CB Lat. of PB
126	417-420	R*4		CB Long. of PB (Jup. Sys. I)
127	421-424	R*4		CB Long. of PB (Jup. Sys. III)
128	425-428	R*4		
129	429-432	R*4		Cartesian State of PB (Jup. Sys. I)
130	433-436	R*4		
131	437-440	I*4	145/146	Q1 Lat. & Long., System 3
132	441-444	I*4	147/148	Q2 Lat. & Long., System 3
133	445-448	I*4	149/150	Q3 Lat. & Long., System 3
134	449-452	I*4	151/152	Q4 Lat. & Long., System 3
135	453-456	I*4	72/73	Q5 Lat. & Long., System 3
136	457-460	I*4	153/154	Q6 Lat. & Long., System 3
137	461-464	I*4	155/156	Q7 Lat. & Long., System 3
138	465-468	I*4	157/158	Q8 Lat. & Long., System 3
139	469-472	I*4	159/160	Q9 Lat. & Long., System 3
140	473-476	R*4		Integrated Radiance Across Spectrum
141	477-480	R*4		Starting Wave # (cm^{-1}), always 150.18 cm^{-1}
142	481-484	R*4		Wave # Spacing (cm^{-1}), always $\frac{1.41}{1.5925} \text{ cm}^{-1}$
143	489-486	I*2		# of Data Points, always 2769
144	487-488	I*2		Scan Platform in Motion Flag - Not Used
145	489-492	R*4		Line 750 - Emission Angle
146	493-496	I*4		Line 750 - Q5 Point (Optic Axis) Latitude, Longitude in packed integer format
147	497-500			Spare
148	501-504	R*4		Radiance Value for 1st Wave Number (Always $150.18 \text{ cm}^{-1} (\text{W/cm}^2/\text{sr/cm}^{-1})$)

.49 505-508 R*4

Radiance Value for 2nd Wave Number (Always
151.57 cm^{-1})

• • •
• • •
• • •
• • •
• • •
• • •
• • •

2916 11573-11576 R*4

Radiance Value for Last Wave Number (Always
3999.11 cm^{-1})

The following example depicts one way to identify individual RDR field quantities:

Logical*1 ~~Byte~~ ^{BYTE}
Integer*2 I2VAL
Integer*4 I4VAL
Real*4 Record, Rad, Header
Dimension Record (2894), Byte (500), I2VAL (250), I4VAL (125),
A Header (125), RAD (2769)
Equivalence (Record (1), Header (1)),
A# (Header (1), Byte (1), I2VAL (1), I4VAL (1)),
FB (Record (126), RAD (1))

A must appear to left of other lines

Each data element can then be addressed simply by using the variable name associated with its type.

Since radiances only are stored in the data portion of the record (i.e., no associated wavenumber), the corresponding wavenumber must be computed using the 3 header words:

ALL CAPS Real*4 Word → 120 Starting Wave No.
 Real*4 Word → 121 Wave No. Spacing
 Integer*2 Word → 243 No. of Data Points

The following is one way to calculate and store these values for use with their corresponding radiances, using the above data definition statements to head the program:

ALL CAPS Dimension Wave (2769)
 Wave (1) = Record (120)
 ← DWN = Record (121)
 ← N = I2VAL (243)
DO 100 I = 2,N DWNT WAVE(1)
 Wave (I) = Float (I-1)*Wave + DWN
100 Continue (2)

[The number of data points (N) will always be 2769.]

3BD5A290	3BD2F9S0	3BD0C00	3BD17LDD	3BD630F0	3BDAA080	3BDC3430	3BDA70A0	3BD78FB0
3BD4C60	3BD3C730	3BD15420	3BDCE390	3BDCC780	3BDG970	3BEC470	3BD937E0	3BD937E0
3BC5C10	3BC3M550	3BC165A0	3BBEA090	3BBC6120	3BB62340	3BB95F00	3BB659A0	3BB66770
3BB2C20	3BB21620	3BB21BF0	3BBAA430	3BA5F8340	3BA5F210	3BA3A3B0	3BA280A0	3BD5D2A0
3BB9EE0	3BD37700	3BB9A16E0	3BB78840	3BB9484D0	3BB97960	3BB97350	3BB97000	3BD5D2A0
3BB8D290	3BB8B6C0	3BB82350	3BB82070	3BB5D9E0	3BB38B30	3BB1AE0	3B84600	3B7FC750
3BB9D250	3BT7C46D0	3BT7CD400	3BT7E430	3BT286E0	3BT5E610	3BT56610	3BT568470	3BT568470
3B700F40	3B6F8090	3B70A880	3B719D40	3B717D80	3B70650	3B6E3C60	3B6BA20	3B69CF60
3B68AEF0	3B6D230	3B68FB0	3B68F750	3B61F1E0	3B62273A0	3B61260	3B614D30	3B614D30
3B64A110	3B644190	3B662E220	3B61C100	3B55E03A0	3B5D5730	3B55E0400	3B5D6AE0	3B55BBA90
3B5F37D0	3B5F03B0	3B5FE3350	3B5D500	3B5D500	3B5D500	3B5D500	3B55B8810	3B55B8810
3B58F6C10	3B58F6C20	3B5850250	3B58D0500	3B58D0500	3B58500	3B586E0	3B586CA30	3B586CA30
3B59F6C10	3B596310	3B58D080	3B58D080	3B58D080	3B58D080	3B58D080	3B585B620	3B585B620
3B5710C0	3B569990	3B5659B30	3B5480A0	3B5480A0	3B5480A0	3B5480A0	3B5480A0	3B5480A0
3B560E50	3B564530	3B5659B30	3B5480A0	3B5480A0	3B5480A0	3B5480A0	3B5480A0	3B5480A0
3B274130	3B25E500	3B250AAA0	3B21B500	3B21B500	3B204E60	3B1CECB20	3B1E2470	3B1E170
3B220340	3B216DE0	3B211CD80	3B1CF460	3B1C74D0	3B1C7620	3B1C4CD0	3B1E3E90	3B1E140
3B1CF160	3B1B94E0	3B1B94E0	3B1B94E0	3B1B94E0	3B1B94E0	3B1B94E0	3B1C3A60	3B1CE570
3B199D60	3B178C70	3B1595950	3B155FA0	3B155FA0	3B155FA0	3B1A4B0	3B1AE160	3B1ACD0
3B152BD0	3B14B300	3B1516920	3B1515A10	3B1515A10	3B1515A10	3B1492B0	3B149340	3B149340
3B142OB0	3B1427B0	3B151B20	3B151B20	3B151B20	3B151B20	3B1492B0	3B149340	3B149340
3H12F430	3B131B30	3E1728F70	3B11AE40	3B11B370	3B11B370	3B11B370	3B11B370	3B11B370
3B12A500	3B115D0	3B116B40						
3B12A060	3B124OC0	3B11D750	3B34A0570	3B3320C0	3B331A370	3B2FA44C0	3B2FA44C0	3B2FA44C0
3AF3E200	3AECD400	3B34E500	3AD0500	3AD0500	3AD0500	3AD11C00	3B2F1110	3B2F1110
3AF53F00	3AF5F400	3ADBBR0	3AD62800	3AD62800	3AD62800	3AD62800	3B10340	3B10340
3B103790	3B119999	3AF9B2599	3AF9B2599	3AF9B2599	3AF9B2599	3AF9B2599	3B10340	3B10340
3AD4BA0	3B1FB800	3B15D0600	3B161B800	3B161B800	3B161B800	3B161B800	3B161B800	3B161B800
3AECE700	3AD52F00	3ACB0E0	3ACB7200	3AD48600	3AD5F200	3AD5F200	3AD5F200	3AD5F200
3ADB9E00	3AD89C00	3AD87100	3AD87100	3AD950700	3AD950700	3AD950700	3AD950700	3AD950700
3ADC9400	3AE93A00	3AD33300	3AD31700	3AD23000	3AD20F800	3AD43700	3AD68BD0	3AD68BD0
3AAC7C00	3AC2C6500	3AE42000	3AEF8800	3B105170	3AFC0700	3AE3B08	3AD63B00	3AD67C08
3ACBA400	3AF5F400	3ADBBR0	3AD62800	3AD62800	3AD62800	3B10600	3B10600	3B10600
3AF9D300	3AF82A00	3AEFC400	3B104D00	3B104D00	3B104D00	3AF1000	3AF1000	3AF1000
3B103FF0	3B108C60	3B103FF0						
3AEFB800	3AD3B400	3AC66C00	3AC66C00	3AC66C00	3AC66C00	3AC66C00	3B1026F0	3B1026F0
3AF3800	3A9C6E00	3A9C6E00	3A9C6E00	3A9C6E00	3A9C6E00	3AEC1400	3AD62300	3AD62300
3AB88T00	3AB3C300	3AB87900	3AD87900	3AD87900	3AD87900	3AD956F00	3AD956F00	3AD956F00
3AB13100	3AC77A00	3AD07700	3AC68F00	3AC68F00	3AC68F00	3AD75C00	3AD81B00	3AD81B00
3ACBA400	3A72C300	3A72C300	3A72C300	3A72C300	3A72C300	3A92B600	3A92B600	3A92B600
3AF4FD00	3A60F00	3A60F00	3A60F00	3A60F00	3A60F00	3A936500	3A936500	3A936500
3A96600	3A8AC400	3A6D6900	3A558C00	3A558C00	3A558C00	3A6E300	3A6E300	3A6E300
3A9474700	3A563800	3A563800	3A6F600	3ASD600	3ASD600	3A6E9200	3A73B0D0	3A73B0D0
3A909C00	3A55BC00	3A3036B00	3A3036B00	3A3036B00	3A3036B00	3A45FC00	3AD2600	3AD2600
3A3BDC00	3A3DA700	3A3A9E00	3A37A200	3A37A200	3A37A200	3A388700	3A388700	3A388700
3A6F980	3A78C500	3A747C00	3A7341C00	3A7341C00	3A7341C00	3A746330	3A68B800	3A68B800
3A45C100	3A72C300	3A611200	3A6D000	3A6D000	3A6D000	3A91E600	3A91E600	3A91E600
3A4E4F00	3A60F00	3A60F00	3A60F00	3A60F00	3A60F00	3A6104D00	3A6104D00	3A6104D00
3A96600	3A8AC400	3A6D6900	3A558C00	3A558C00	3A558C00	3A6E300	3A6E300	3A6E300
3A9474700	3A563800	3A563800	3A6F600	3ASD600	3ASD600	3A6E9200	3A73B0D0	3A73B0D0
3A909C00	3A55BC00	3A3036B00	3A3036B00	3A3036B00	3A3036B00	3A45FC00	3AD2600	3AD2600
3A3BDC00	3A3DA700	3A3A9E00	3A37A200	3A37A200	3A37A200	3A388700	3A388700	3A388700
3A6F980	3A78C500	3A747C00	3A7341C00	3A7341C00	3A7341C00	3A746330	3A68B800	3A68B800
3A45C100	3A72C300	3A611200	3A6D000	3A6D000	3A6D000	3A91E600	3A91E600	3A91E600
3A4E4F00	3A60F00	3A60F00	3A60F00	3A60F00	3A60F00	3A6104D00	3A6104D00	3A6104D00
3A96600	3A8AC400	3A6D6900	3A558C00	3A558C00	3A558C00	3A6E300	3A6E300	3A6E300
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YEF1421 - STEP WAS EXECUTED - COND CODE: 0000
IEF2851 VOL SER NOS= K3SCR5. PASSED
IEF2851 SYSB0357-T083513-RV000-YZFWPBR1-LDDMOD DDNAME=PGM=*.*.CD
IEF2851 VOL SER NOS= K3SCR5. DDNAME=FT05F001
IEF2851 VOL SER NOS= K3SCR5. SY SIN DDNAME=FT05F001
IEF2851 VOL SER NOS= K3SCR5. DELETED DDNAME=FT05F001
IEF2851 VOL SER NOS= K3SCR5. SYSCUT DDNAME=FT06F001
IEF2851 VOL SER NOS= K3SCR4. DDNAME=FT07F001
IEF2851 SYSB0357-T083513-SV000-YZRWPERI-R0000197 DELETED DDNAME=FT07F001
IEF2851 VOL SER NOS= K3SCR3. DDNAME=SYSPRINT
IEF2851 SYSB0357-T083513-SV000-YZRWPERI-R0000198 DELETED DDNAME=SYSDUMP
IEF2851 VOL SER NOS= K3SCR4. DELETED DDNAME=FT08F001
IEF2851 SYSB0357-T083513-SV000-YZRWPERI-R0000199 DELETED DDNAME=FT08F001
IEF2851 VOL SER NOS= K3SCR5. KEPT DDNAME=FT08F001
IEF2851 SYSB0357-T083513-RV000-YZFWPBR1-R0000200 KEPT DDNAME=FT08F001
IEF2851 VOL SER NOS= K3SCR5. OK
IEF2851 VOL SER NOS= K3SCR5. 3.381
IEF2851 VOL SER NOS= K3SCR5. 3.381
IEF2851 STEP /GO / START 80357-1649 3.381
IEF2851 STEP /GO / STOP B0357-1659 CPU OMIN 4.3.12 SEC MAIN 186K LCS 0K
IEF2851 STEP /GO / RETURN CODE = 0000 3.381
IEF2851 - SURCHARGE$ (DRIVES ALLOC=000,TAPE MOUNTS=000,DISK=2.55,DRUM=.00,PAPER=000,PRIO=00000)SECS. TOTAL STP TIME= 4.09 MINS. -
IEF2851 SYSB0357-T083513-RV000-YZFWPBR1-LDDMOD DELETED
IEF2851 VOL SER NOS= K3SCR5. 3.381
IEF2851 JAB /YZFWPBR1/ START 80357-1648 3.381
IEF3751 JAB /YZFWPBR1/ STOP B0357-1659 CPU OMIN 4.3.99 SEC
IEF3761 SYSTEM=MREFL21.RF (04-01-79) K3 3.381
IEF3761 JOB 0325- 3.381
IEF3761 - SURCHARGE$ (DRIVES ALLOC=000,TAPE MOUNTS=000,DISK=13.87,DRUM=.00,PAPER=000,PRIO=00000)SECS. TOTAL JOB TIME= 4.30 MINS. -
IEF3761 - THERE WERE 01 TAPES MOUNTED FOR THIS JOB. TAPE MOUNT CHARGE WAS 0.0 MINUTES. -

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JOB SC1801RC STEP 1E1DEF

TIME 221601 DATE 80315 ID = 000

PAGE 0016

LINES OA6220-0A6240 SAME AS ABOVE
 OA6260 40404040 40404040 40404040 40404040
 OA6280 40404040 40404040 40404040 40404040
LINE OA62AO SAME AS ABOVE

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00A6400	00A6400	00A6400	00A6400	00A6400	00A6400	40404040	40404040
+040404040	+040404040	+040404040	+040404040	+040404040	+040404040	40404040	40404040
00A6420	00A6420	00A6420	00A6420	00A6420	00A6420	40404040	40404040
+040404040	+040404040	+040404040	+040404040	+040404040	+040404040	40404040	40404040
00A6440	00A6440	00A6440	00A6440	00A6440	00A6440	40404040	40404040
+040404040	+040404040	+040404040	+040404040	+040404040	+040404040	40404040	40404040

00A6580	F1F54040	40F2F040	404F2F5	40404040	404D4040	F3F54040	40F4F040	4040F4F5
00A65A0	D4D54040	F0404040	F5F54040	40F6F040	40404140	40404040	40404040	40404040
00A65C0	D6D4C505	40404040	C1B4C540	40F404040	40404140	C9E840	C1B5C440	
00A65E0	C9C4C505	E3C9C6C9	C3C1E3C9	D6D54040	40404040	60606060	60606060	60606060

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0A66E0	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
0A6700	00000000							
0A6720	00000000	00000000	00000000	40404040	40404040	40404040	40404040	40404040

000A6809 40404040 40404040 40404040 40404040
LINE 0A6820 505C404C 40404040 F240C540
0A684C 40404040 505C404C 40404040 F240C540

PAGE 0015

JOB	SC1801RC	STEP	DELDEF	TIME	271601	DATE	80315	ID	= 000
OAS9CU	D201U230	D4344110	D22058E0	D40405EF	D213A060	D23447F0	C2C09204	AC079500	* K.K.M..K..K..K..OB..*
OAS59EU	A054770	C2284208	AC0747F0	C3E49610	D04847F0	C2C09500	A054770	C2469640	* * * B..OCU..OB..*
OAS5A00	D049D504	A000B450	4770C24A	9801D049	47F0C24A	9802C005	12774770	C2745849	* * * N..M..B..OB..*
OAS5A20	D0485849	N0241244	4780C280	48390028	48490028	5A490024	12334780	C2745849	* * * B..*
OAS5A40	002495FF	40004770	C2809200	40005820	D0481222	4780C2CE	D215CERO	CB3C181B	* * * B..K..*
OAS5A60	4100CE74	58F01030	05EF0284	CE74D074	D094CE76	A000D21D	CE8AA042	92F0C79B	* * * O..K..K..K..OB..*
OAS5A80	F830D670	D44A47F0	C2C045E0	C6B445E0	C8325820	D0481222	4770C858	58290024	* * * M..OB..H..H..*
OAS5A90	12774770	E8E89620	D0489504	A0674780	C28047F0	C8585889	00204847	0004A830	* * * BY..*
OAS5ACU	B0524B30	D43658B0	D3E84637	000847A0	C3D964	D04847F0	C2DC1B34	47A0C318	* * * M..LY..*
OAS5AE0	9602U648	IA43413A	00604A27	006892FF	C3D91FF	700C4780	C3BAD200	D233700F	* * * C..K..K..*
OAS5BCU	D203D220	D4001201	D2301432	4110D220	58F0D404	05EF91FF	D04A4770	C2DC4130	* * * K..K..M..K..M..K..*
OAS5BD	D248951C	700C4780	C3889520	700C4780	C3984F10	D2489510	700C4770	C3784010	* * * K..C..K..C..*
OAS5BCG	C83247F0	C85895C1	A0054770	C400C9008	D048920C	A00747F0	C4A012777	4770C428	* * * H..OH..A..D..*
OAS5BEU	9620D468	C3BA95C0	700C4770	C3985010	D24847F0	C3BA4110	00074114	4740C3B2	* * * K..C..*
OAS5B60	IA3147F0	C3BA9520	700C4770	C3R28940	00064440	C3AC47F0	C858F307	2000D248	* * * OC..*
OAS5B80	9601U049	47F0C2DC	4B40D438	47A0C3D2	4A40D438	4B40C3D3	4400C3D2	47F0C858	* * * M..CK..M..CL..CK..OH..*
OAS5BAJ	D2FF2000	30004122	01004133	010047F0	C3BA95C1	A0054770	C2BC9640	D04845E0	* * * OC..A..E..*
OAS5BCG	C83247F0	C85895C1	A0054770	C400C9008	D048920C	A00747F0	C4A012777	4770C428	* * * D..D..*
OAS5BEG	9620D468	C3B45CE0	C6AC9200	A00747F0	C3BA4110	00074114	4740C3B2	* * * K..*	* * * K..*
OAS5CC0	00244437	00084B39	00284240	00284240	0069D200	30000200	4840B052	* * * K..*	* * * K..*
OAS5C20	404A0022	064092FF	C3D34B40	D4364740	C4744400	C3D24122	01004133	010047F0	* * * F..*
OAS5C4U	C45C4A40	D4384240	C3D34400	C3D34839	00284133	A060412A	00244849	002A0640	* * * D..M..*
OAS5C60	4240C497	U2003000	260047F0	C4A01299	4770C4AE	9620D048	47F0C4U2	58B90020	* * * D..K..*
OAS5C8C	4830BC52	0630430	DC5A95C1	C6AC9200	A00747F0	C409620	D049D238	CEB0CB00	* * * A..D..*
OAS5C9U	45E0C6AC	47F0C858	5BB003E8	4120D050	502A001C	45E0C684	58B90020	48290C08	* * * D..K..*
OAS5CJ0	48390C2A	58490024	12224770	C50211A43	9514A0017	4770C512	9210A007	47F0C538	* * * E..*
OAS5CJ1	58290U24	12224780	C53892C4	A0059201	A02192FF	40005880	D3E89510	A0074770	* * * F..*
OAS5D00	C53B45E0	C83258B0	03E847F0	C8589101	D073078E	50E0D04C	47F0C664	920B8C52	* * * G..*
OAS5D20	181B4100	C85258F0	103005EF	92089C852	C409620	D049D238	CEB0CB00	58B80D3E8	* * * H..*
OAS5D40	181R4100	C85258F0	103005EF	92089C852	502A001C	45E0C684	58B90020	48290C08	* * * I..*
OAS5D60	CBD958F0	103005EF	41100024	12224770	D3B0066C	CCAD03C1	92600CC5	920B8C52	* * * J..*
OAS5D80	F363CCA6	D3B5C9240	CCACD204	CA6FCCAO	181B4100	CC5E58F0	103005EF	181B4100	* * * K..*
OAS5D90	CCE35BF0	103005EF	181B4100	CD6958F0	103005EF	181B4100	CDED58F0	103005EF	* * * L..*
OAS5DC0	F831D070	D43A58E0	004C07FE	9200C548	5820D3F0	95E62010	C85258F0	103005EF	9211C052
OAS5DE0	D455D20E	C85004755	D27ACCE0	2011D0216	044AF333	CCAD06C	96F0CC5D	181B4100	* * * M..*
OAS5E00	D17E95E2	20104780	C6500D216	CB8701C5	95D7200F	4780C650	D216CB87	91AC928B	* * * N..*
OAS5E20	CB52181B	4100CB52	58F01030	05EF47F0	C56E5820	D3F0C95E7	200A4770	C9C995E7	* * * O..*
OAS5E40	C7539680	C7C79680	C87775E7	200B4770	C68C96F0	C97196F0	C9C995E7	200C4770	* * * P..*
OAS5E60	C5FF96F0	D27892F0	C1439640	C7539640	C7C79640	C877747F0	C5F50F0	D06847F0	* * * Q..*
OAS5E80	C7C79680	D689209	D074587A	001C1277	700B4770	C7C79640	C877747F0	C5F50F0	* * * R..*
OAS5E90	12444780	C7C79647	00064837	000A91FF	D2204780	C7285040	D220200	D074587A	* * * S..*
OAS5E90	D200D233	07004230	D2314110	D23058F0	D40405EF	D213CEB0	D23491FF	D04A920C	* * * T..*
OAS5EE0	D04A4780	C7C79620	C1470C73A	C1A7D503	D048D40C	4770C73A	D048D40C	4770C73A	* * * U..*
OAS5F00	95C2A005	4780C81A	4630D43C	47C0C7B2	D238CEB0	40004A40	D43C5810	D0481211	* * * V..*
OAS5F20	4770C768	181B4100	CE7458F0	103005EF	F830D070	D044AD503	D048D40C	4770C794	* * * W..*
OAS5F40	D238CAC3	C8505820	D4101812	4100CAF6	58P01030	05EF4310	CAB14111	00014210	* * * X..*
OAS5F60	CAB1D284	CET4D074	4700C73A	92F0C79B	D204CE76	A000D21D	CF8AA042	47F0C73A	* * * Y..*
OAS5F80	4A30D43C	4230C7RB	D200CEB0	D0005810	D0481211	4700C7DC	181B4100	CE7458F0	* * * Z..*
OAS5FA0	10300SEF	F830D070	D44AD503	D048D40C	4770C7FC	D238CAC3	C8B05820	D4101812	* * * A..*
OAS5FC0	4100LA6F	58F01030	05EF0284	CE7458F0	CE7458F0	4780C81A	D204CE76	A000D21D	* * * B..*
OAS5F80	CE8AA042	92F0C79B	45E0C540	58E0D68	D4364740	C8244144	006092D5	CAB0201	* * * C..*
OAS600	50E0D68	D203CEAA	D4144483A	00224830	D4364740	C8244144	006092D5	CAB0201	* * * D..*
OAS6020	CAB147F0	C7281822	95C2A005	4770C86C	D503D048	D400C4780	C92C4700	CBA2583C	* * * E..*
OAS6040	DC481233	4700C92C	U504CE76	U46B4780	95F0C79B	4780C81A	D204CE76	58F01030	* * * F..*
OAS6060	D070D44A	D284CE74	D0741233	4720C8BC	101B4100	D07458F0	103005EF	9200C86D	* * * G..*
OAS6080	F830D070	D44A47F0	C92C4160	D11F5840	D41844A	0006FA30	4000D44A	12994780	* * * H..*
OAS60A0	C8E49500	A0074780	C8EA481A	00065A19	0038FA30	101CD44A	D25BD120	D11F4140	* * * I..*

UB SCI801RC STEP DELOEF

TIME 221601 DATE 80315 ID = 000

DACE 0016

JOB SC1801RC STEP DELETED

TIME 221601 DATE 80315 ID = 000

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SA	UE22BC	WD1	00000000	HSA	000A7714	LSA	000B3AA4	RET	600B23E6	EPA	000B3A98	RO	00000001
		R1	000B2D28	R2	00000001	R3	00000000	R4	000B2828	R5	00000000	R6	00000003
		R7	000A8728	R8	000B2828	R9	808ECADO	R10	000A6D58	R11	000B2D40	R12	600B22B8
SA	UE3AA4	WD1	00000000	HSA	000B22BC	LSA	00000000	RET	00000000	EPA	00000000	RO	00000000
		R1	00000000	R2	00000000	R3	00000000	R4	00000000	R5	00000000	R6	00000000
		R7	00000000	R8	00000000	R9	00000000	R10	00000000	R11	00000000	R12	00000000

INTERVIEW AT CAECE

PRINCEDDING BACK VIA REC 13

ASKIPIOTE WAS ENTERED VIA C-41

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R1 00CA6D58 R2 00000001

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WITNESS STATEMENT OF DR. RICHARD BROWN

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CHAINS

ACTIVE IMMUNOTHERAPY

JOB SC1801RC STEP DELDEF
BYPASS I/O INTERVENTION
ESTAE INDICATOR ON
RETAIN SCB ACROSS XCTL
THIS SCB IS IN USE
USER IN KEY 0-7
USER IN SUPERVISOR STATE

TIME 221601 DATE 80315 ID = 000

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-STATE CONTROL BLOCK-----AT LOCATION 008EE2E0

+0 NEXTSCF 008EE2F4 USEREXIT 00D0905E PARMLIST 168B1924 TCB/RB 038EE7DD0 SCB DATA 4000DB00

SCB BIT FLAG SUMMARY

+8 ALLOW ASYNCHRONOUS INTERRUPTS
BYPASS I/O INTERVENTION
ESTAE INDICATOR ON
USER IN KEY 0-7
USER IN SUPERVISOR STATE

-STATE CONTROL BLOCK-----AT LOCATION 008ECE30

+0 NEXTSCB 008EE2E0 USEREXIT 000C8C22 PARMLIST 168B1350 TCB/RB 038EE7DD0 SCB DATA 0000DB00

SCB BIT FLAG SUMMARY

+8 ALLOW ASYNCHRONOUS INTERRUPTS
BYPASS I/O INTERVENTION
ESTAE INDICATOR ON
USER IN KEY 0-7
USER IN SUPERVISOR STATE

SAVE AREA TRACE

ASKUPDTE WAS ENTERED VIA LINK

SA 10A4FA0 WDI 00000000 HSA 00000000 LSA 000A7714 RET 0000F260 EPA 000A6B40 RO 008ECF40
R1 000A4FE8 R2 00000040 R3 008E0634 R4 008E0610 R5 008EC840 R6 008BE018
R7 F0000000 R8 008EC136 R9 808ECA0 R10 00000000 R11 008C9DB8 R12 70DEDA72

ASKUPDTE WAS ENTERED VIA CALL

SA 0A7714 WDI 00000000 HSA 000A4FA0 LSA 000B22BC RET 600A7FB0 EPA 000B22B0 RO FF0A86E0
R1 000A6D58 R2 00000001 R3 000A6CDC R4 0000000A R5 000A6D4A R6 000A6D58
R7 F0000000 R8 008EC136 R9 808ECA0 R10 000A7E10 R11 000A4FA0 R12 400A6B46

ASKUPDTE WAS ENTERED VIA CALL

JOB SCI8GIRC STEP DELDEF TIME 221601 DATE 8C315 ID = 000

-SNPPARMS
+100 0060000 0F40BE00 008BAE08 008C9ACB 00000000

-DUMP STORAGE RANGES
+114 0000000 0000000 0000000 0000000 0000000 0000000 0000000 0000000

+134 E2E8E2F4 C4E4D4D7 00000000 008C9AC8 008C9824 008C9828 008C982C 008C9830
+154 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SUBFUNCTION REGISTER SAVE AREA

+174 00000000 00000000 00000000 50D62ECE 00D5F1C0 900142F8 008C96D0 00FD3DC0
+194 00L6367B 008C9AC8 008E6E0 40D6267C 00000000 008C96D0 008C9AC8 00000000
+1B4 00000000 008C9AC8

+1BC 00000000 00FA0018 00000000 00000000 00000000 00000000 00000000 00100000
+1DC 00000000 00D60336 00D62EFA 00000000 00D64452 000000800

-RECURSION REGISTERS

+1F4 000001A0 008C84C0 008BE05C 0080E600 008C9AC8 00D601E3 50D5F1E4 008C96D0
+214 008BAE08 00000000 008BE05C 008BAE60 008C9678 008C9844 00000000 00000000

-SAVE AREA FOR VTR T2

+234 00000000 00000000 00000000 40D641CA 00D62660 900142F8 00000000 00FD3DC0
+254 0000F210 008C9AC8 008E6E0 40D6369A 00REF740 008C96D0 00003200 008B8000
+274 00000000 008B8000

-SAVE AREA FOR TAS2/TAS3

+27C 00000000 00000000 00000000 50D62242 00D5F000 00000010 008B4BB8 00FD3DC0
+29C 008C96D0 008C9AC8 008EE2F4 40D6267C 008B4B88 008C96D0 008EC770 50D616FC
+2BC 008EC730 008B4DB8

+2C4 008C9998

-RMPL
+2C8 84000005 00FE22FC 008C9AC8 00000000 008C9980 00000000

-WORK AREA FOR RESOURCE MANAGER

+2E0 FF030170 008C99BC 008C94C4 E2E8E2C9 C5C1F0F1 C9C5C100 0002F980 000000C5C
+300 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

-SAVE AREA FOR RESOURCE MANAGER

+320 00000000 008C9844 008C6F50 50D5F524 00D5F0A88 000001F7 008BAE64 008BE05C
+340 0080E600 008C9AC8 00D601E3 50D5F1E4 008C96D0 008BAE08 00000000 008BE05C
+360 008BAE64 008C9678

+369 01010000 0050000C 34870000 00003200 008B4E00 008B55E0 008B4E00 008B7FE0
+388 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
+3A8 00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000
+3C8 00000000

JOB SC18C1RC

1U = 000

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STEP DELDEF

-DEB-

-24 DEBAVT 00A7C18 00C162A6 DEEPCTA 000162A6 DEBCEA 00B100C8 DEBXCEA 00B100CC
PREFIX 00000000 01000123 EXTNSION 00BC8B30 LENGTH 20 TBLOF 0001
TCBADR 068C9AC8 NEXTDEB 00000000 IRBADR 68000000 PATB 00001100
USRPIC 01000000 RQR 00000000 DCBADR FF0A7C8C APPADR 048C8AB8
+10
+10
+20
+30
+40
+50

00021E0 00000F2 000000FF 001D01A4
C2C2C2C1 C3C3C3F0 C3C3C2C3 00000000
0C000000 00000000 00000000 0C000000
00000000 00000000 00000000 00000000

AT LOCATION CCBC8ADC

-DCB- (BPAM)

AT LOCATION 000A7C8C

+10 002B4B36 00000001 000000200 000000001 060000001 C00000000 011C2400 008CBADC
12B14028 01F99868 0E000C01 00001928 00005800 000A4F28 01B11C28 00B11C28
+30
+50 00000600 00AFC178

-10B- (SAM,BPAM-NORMAL SCHEDULING) AT LOCATION 000A4F30

-8 010A4F28 7F000000 0000 ECBPT 000A4F2C CSM 00000000 00000000
+0 FLAG 0200 SENS 0000 ECBPT 000A7C8C RESTR 00000000 VARIABLE 00000000
+10 START 00A4F58 DCBPT

RTM2WA AT LOCATION 008C46D0

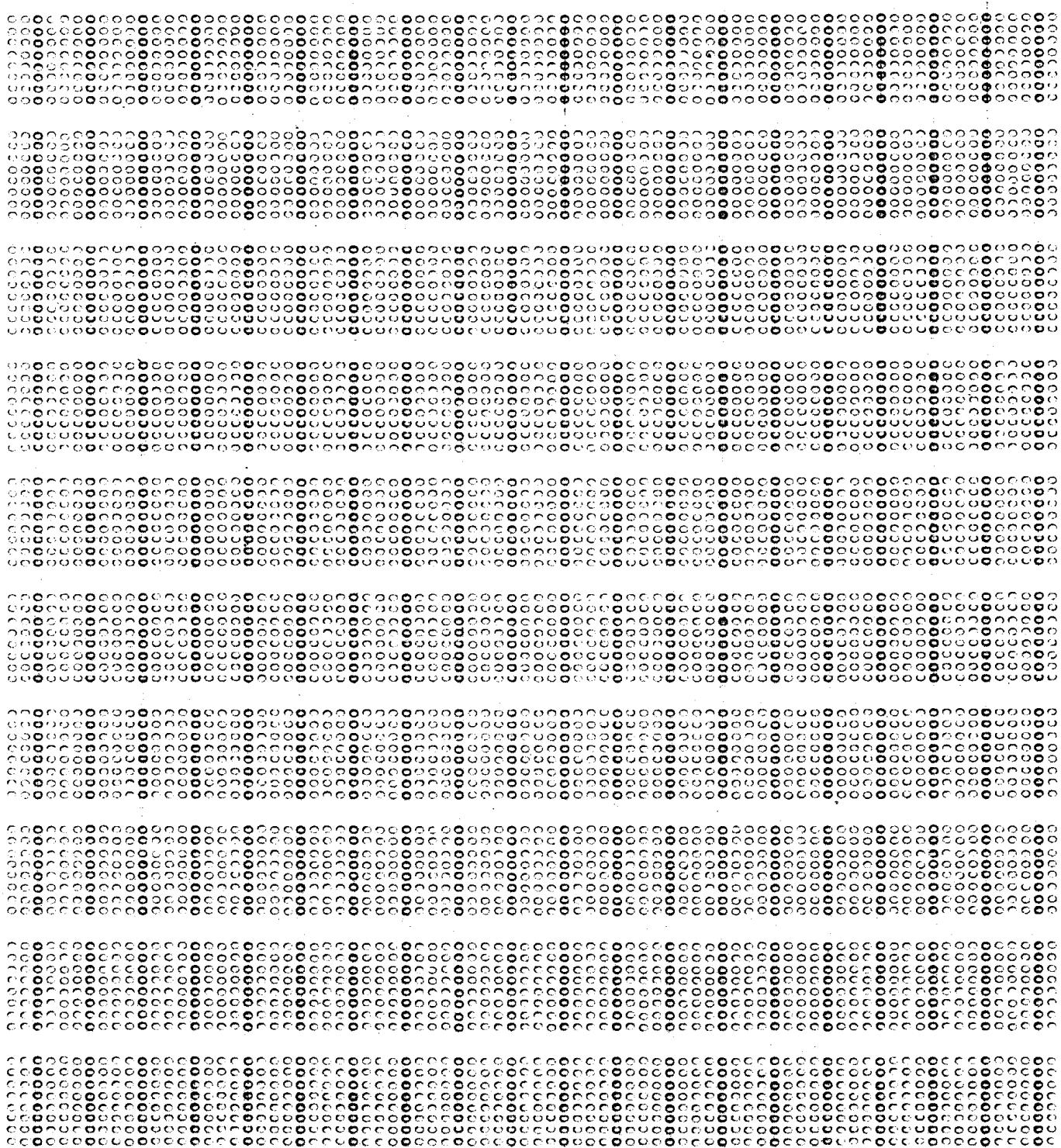
+0 D9E3D4F2 008C96D0 FF0003CC 0000F210 008C9AC8 008EE6EC 00FE22F0 80035000
+20 00000000 00000000 00000000 00000000 008C9AC8 008EE6ED 00FD0358
-EED TYPE1 REGS AND PSW
+3C 80000000 80035000 8F8E8C78 60B2B28A 008CB098 018C88C4 008C88C4
+5C 008C889C 008C8BEC 008C8680 00000000 00000000 00004638 00B03E58 00B2B2B8
+7C 075C1000 00B2B650 0002000D 00000000

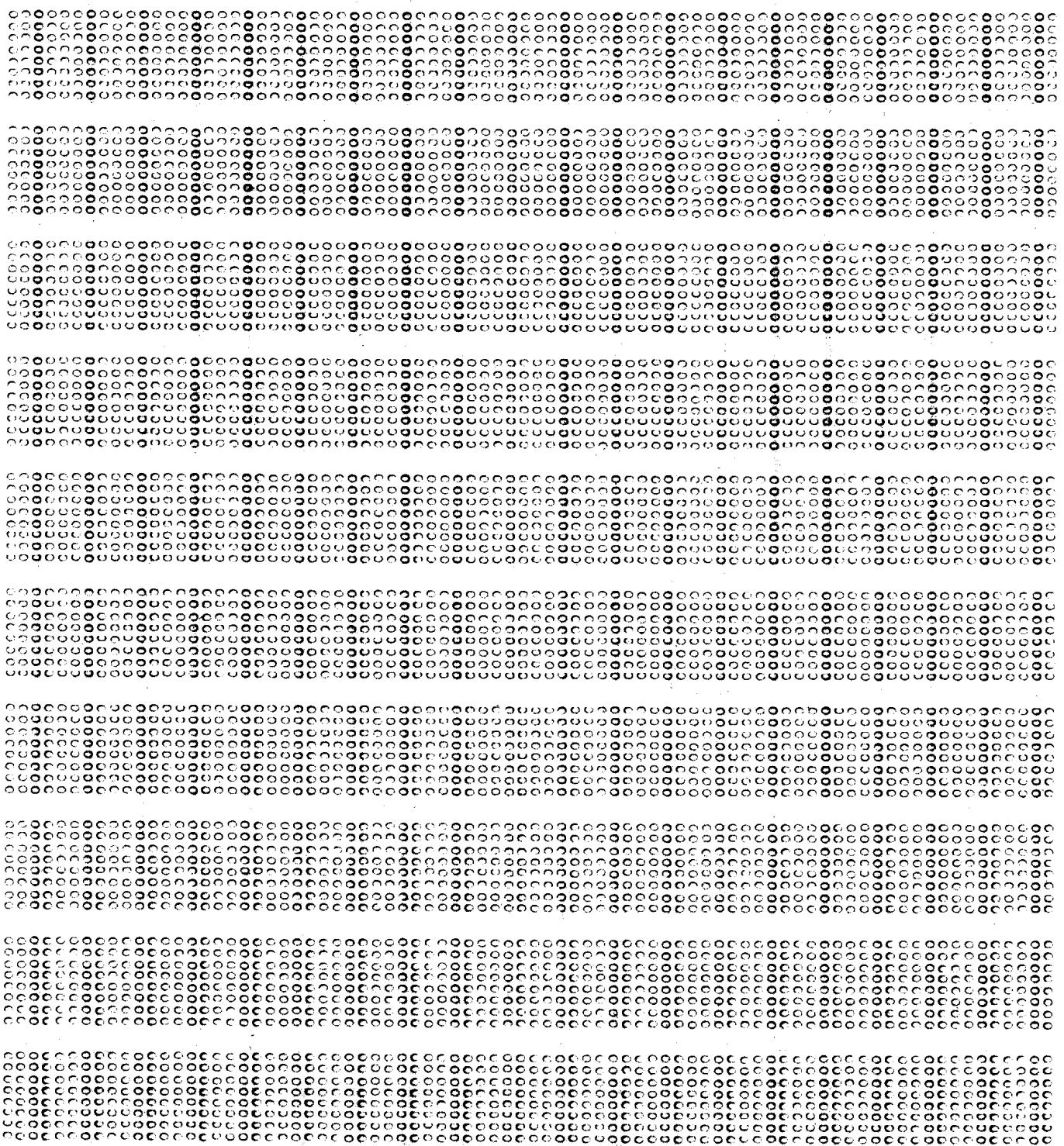
+8C 008EE5F0 00000000 00000000

-EED TYPE3 MACHINE CHECK
+98 (00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

+B4 10041001 00001000 00000000 008EE5FD 00000000 00000000 008EE2F4 00000000
+D4 00000000 E6000248 008C8A70 00000010 00000000 00000000 FF540000 50B2B650
+F4 F850013 400AB0EE 008C97D0

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 PAGE 0011
 JOB SC1801RC STEP DELETED TIME 221601 DATE 80315 ID = 000
 COMPLETION CODE 6003500C
 +1C ABENDING PROGRAM NAME N/A
 +8C ABENDING PROGRAM ADDR 00000000
 +94
 REGS AT TIME OF ERROR 80000000 80035000 8F8C8C78 60B282BA 008C8D98 018C88C4 008C887C 018C88C4 (0-7)
 +3C EC PSW AT TIME OF ERROR 008C889C 008C88EC 008C8860 00000000 00000000 00000000 00000000 00B03E58 00B2B288 (8-F)
 +5C SDWACOMP 075C1000 00B2B650 0002000D 00000000
 +7C
 +DC
 RETURN CODE FROM RECOVERY ROUTINE--00,CONTINUE WITH TERMINATION--IMPLIES PERCOLATION
 +E8 RETRY ADDR RETURNED FROM RECOVERY EXIT 00000010
 +E9 RB ADDR FOR RETRY 00000000
 +E4
 +C CVT ADDR 0000F210
 +38 RTCT ADDR 00FDD358
 +CB SCB ADDR 00000000
 +D4 SDNA ADDR 00000000
 +14 SVRB ADDR 008EE6E0
 +16C PREV RTM2WA FOR THE TASK 00000000
 +170 PREV RTM2WA FOR RECURSION 00000000
 +BB ASID OF ERROR IF CROSS MEMORY ABTERM 0000
 +36C FRRR ASID 0005
 CURRENT TRACE ENTRY FOR SAVED TRACE TABLE 008B55E0
 FIRST TRACE ENTRY FOR SAVED TRACE TABLE 008B4E00
 LAST TRACE ENTRY FOR SAVED TRACE TABLE 008B7FF0
 RTM2WA BIT FLAG SUMMARY
 +2C8
 TASK TERMINATION
 ABNORMAL TERMINATION
 TERMINATING TASK IS JOBSTEP
 TASK ISSUED SVC 13
 +380 ENABLED RB IN CONTROL AT ERROR
 +384 ERROR ID INFORMATION AVAILABLE
 ESA BIT FLAG SUMMARY (RTM1 RELATED INFORMATION) FROM SVRB AT 008EE6E0
 +8B SYSTEM STATE: TASK MODE
 -STAE CONTROL BLOCK-----AT LOCATION 008EE2F4-----
 +U NEXTSCB 00000000 USEREXIT 00D874A8 PARMLIST 168C87F8 TCB/RB 538EE5F0 SCB DATA 4850DB00
 SCB BIT FLAG SUMMARY
 +8 ALLOW ASYNCHRONOUS INTERRUPTS





RECORD 10319 FILE 1
 LENGTH = 11<84 BYTES

2D400000	2D3F0000	000C36A2	00030002	C1AFCCCC	0004F4C	00030014
00020005	00020005	00B30000	000103C2	CC000CCC	00040021	00030005
00000000	00000000	00000000	00000000	CC000CCC	0004004F	00030006
42C7F328	42C7F328	42C7F080	42C7F080	CC000CCC	0004005C	00030007
42C7FED4	42C7FED4	3AA03F36	3AA03F36	CC000CCC	0004007C	00030008
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	0004009C	00030009
3B133178	3B133178	3B133178	3B133178	CC000CCC	000400AC	0003000A

RECORD 10300 FILE 1
 LENGTH = 11<84 BYTES

20300,20	20300,20	00030002	00030002	C0640001	00030014	00030014
00030002	00030002	00030002	00030002	CC000CCC	00030021	00030005
00030002	00030002	00030002	00030002	CC000CCC	0003003C	00030006
00030002	00030002	00030002	00030002	CC000CCC	0003005C	00030007
00030002	00030002	00030002	00030002	CC000CCC	0003007C	00030008
00030002	00030002	00030002	00030002	CC000CCC	0003009C	00030009
00030002	00030002	00030002	00030002	CC000CCC	000300AC	0003000A

RECORD 10300 FILE 1
 LENGTH = 11<84 BYTES

3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	00030014	00030014
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	00030021	00030005
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	0003003C	00030006
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	0003005C	00030007
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	0003007C	00030008
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	0003009C	00030009
3AA03F36	3AA03F36	3B133178	3B133178	CC000CCC	000300AC	0003000A

